



BIOLOGY NMDCAT EARLIER PREP

PMC UNIT WISE TEST Unit-2

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03418729745(WhatsApp Groups)

SAEED MDCAT TEAM

TOPICS:

✓ **Biological molecules**

✓ **Enzymes**

Q.1 The most abundant organic compound to be found in any type of cell is:

- A. Carbohydrates
- B. Proteins
- C. Lipids
- D. Water

Q.2 _____ act as product as well as reactant of photosynthesis.

- A. Glycine
- B. Ribose
- C. Glucose
- D. Water

Q.3 The compounds which on hydrolysis yield polyhydroxy aldehyde or ketone subunits are:

- A. Lipids
- B. Nucleic acids
- C. Proteins
- D. Carbohydrates

Q.4 The type of chemical reaction which correctly justifies the synthesis of cellulose is:

- A. Hydrolysis
- B. Condensation
- C. Decarboxylation
- D. Reduction

Q.5 Which of the following is not a macromolecule?

- A. Nucleic acid
- B. Glucose
- C. Polysaccharides
- D. Proteins

Q.6 Most common ring structure formed by glucose molecule is:

- A. 4 cornered
- B. 5 cornered
- C. 6 cornered
- D. 7 cornered

Q.7 Monosaccharides are major components of:

- A. DNA, ATP, ribulose biphosphate and cysteine
- B. DNA, NADP, ATP and ribulose biphosphate
- C. DNA, NAD and Insulin
- D. DNA, RNA and myosin

Q.8 The type of polysaccharides which can be stored in plants and animals are _____ and _____, respectively.

- A. Starch, cellulose
- B. Glycogen, cellulose
- C. Starch, glycogen
- D. Glycogen, starch

Q.9 _____ is the most abundant carbohydrate in nature.

- A. Cellulose
- B. Dextrins
- C. Chitin
- D. Starch

Q.10 It is an example of keto-triose, produced by the splitting of fructose 1,6-bisphosphate during glycolysis:

- A. Glyceraldehyde
- B. Ribose
- C. Dihydroxyacetone
- D. Xylulose

Q.11 Identify the type of carbohydrates which has high molecular weight and sparingly soluble in water:

- A. Monosaccharides
- B. Oligosaccharides
- C. Disaccharides
- D. Polysaccharides

Q.12 1,4-glycosidic linkage is found in all of the following carbohydrates except:

- A. Sucrose
- B. Maltose
- C. Lactose
- D. Amylose

Q.13 All of the following are common in all amino acids except:

- A. Amino group
- B. Carboxyl group
- C. Alpha carbon
- D. R-group

Q.14 The number of amino acids that have been found to occur in cells and tissues are:

- A. 170
- B. 25
- C. 20
- D. 45



- Q.15** A protein molecule is related to all of the following except:
A. Homopolymer B. Polypeptide
C. Heteropolymer D. Peptide bond formation
- Q.16** Which of the following holds the alpha helix of protein in its place?
A. Hydrogen bond B. R-group
C. Amino group D. Disulphide bond
- Q.17** The most abundant protein to be found in animals is:
A. Myoglobin B. Hemoglobin
C. Collagen D. Albumin
- Q.18** Which of these is not significant to maintain quaternary structure of proteins?
A. Peptide bonds B. Hydrogen bonds
C. Ionic bonds D. Hydrophobic interactions
- Q.19** In an insulin molecule, the polypeptide chains are held together by:
A. Peptide bond B. Disulphide bridges
C. Hydrogen bond D. Ionic interaction
- Q.20** If a protein molecule having two polypeptide chains and 990 amino acids, then how many water molecules were released during its synthesis?
A. 987 B. 988
C. 989 D. 990
- Q.21** The structure of a fibrous protein comprises of polypeptide chains in the form of:
A. Cluster B. Spherical or curled up ball
C. Flat uncoiled chains D. Long strands or fibrils
- Q.22** All of the following are included in lipids except:
A. Acylglycerols B. Terpenoids
C. Sphingolipids D. Chitin
- Q.23** Acylglycerols are esters formed by condensation reaction between:
A. Fatty acids and water B. Fatty acids and glucose
C. Fatty acids and alcohols D. Fatty acids and phosphates
- Q.24** A fatty acid is unsaturated if it contains double bond between:
A. Carbon and hydrogen B. Carbon and oxygen
C. Carbon and carbon D. Oxygen and oxygen
- Q.25** Specific properties of tail in phospholipid molecule is due to:
A. Glycerol B. Phosphate group
C. Fatty acid D. Nitrogenous base
- Q.26** From the following options, identify an example of phospholipids:
A. Palmitic acid B. Butyric acid
C. Lecithin D. Phosphatidic acid
- Q.27** Cuticle is an example of:
A. Acylglycerol B. Wax
C. Phospholipid D. Terpenoids
- Q.28** The hormones of adrenal cortex and gonads belong to:
A. Terpenoids B. Diacylglycerol
C. Glycolipids D. Tyrosine
- Q.29** It is not a chemical component of lecithin molecule:
A. Isoprenoid B. Fatty acids
C. Glycerol D. Phosphate group and choline
- Q.30** What are the features of triglycerides?

	Polar	Less dense Than water	Higher energy value than carbohydrates	Lower proportion of hydrogen than in carbohydrates
A.	✓	✓	✗	✗
B.	✓	✗	✓	✓
C.	✗	✓	✓	✗
D.	✗	✗	✗	✓

- Q.31** The combination of a pentose sugar with a base result in a compound known as:
A. Nucleotide B. Nucleic Acid
C. Nucleoside D. Polynucleotide
- Q.32** Phosphodiester bond is:
A. $P-O-C-P-O-C$ B. $C-O-P-O-C$
C. $C-O-P$ D. $C-N-C-O-P$



- Q.33 Which one is an example of mono-nucleotide?**
A. Adenosine B. Guanine
C. ATP D. NAD^+
- Q.34 All of the following molecules are directly synthesized from DNA except:**
A. DNA B. tRNA
C. Protein D. mRNA
- Q.35 It is the usual mode of flow of genetic information within the cells:**
A. DNA \rightarrow Ribosome \rightarrow Protein B. DNA \rightarrow rRNA \rightarrow Protein
C. DNA \rightarrow tRNA \rightarrow Protein D. DNA \rightarrow mRNA \rightarrow Protein
- Q.36 Most of the cellular secretions are _____ in nature.**
A. Glycoprotein B. Nucleolipid
C. Glycolipid D. Nucleohistone
- Q.37 _____ play an important role in regulation of gene expression.**
A. Glycoprotein B. Nucleolipid
C. Glycolipid D. Nucleohistone
- Q.38 Enzymes increase the rate of reaction by:**
A. Increasing temperature B. Decreasing activation energy
C. Decreasing pH D. Increasing product concentration
- Q.39 All of the following correctly describe the active site of an enzyme except:**
A. It is small relative to the entire enzyme
B. It is two dimensional in structure
C. Specificity is defined by arrangement of certain amino acids
D. It initially binds substrates by weak attractions
- Q.40 The non-protein part of enzyme which is covalently and permanently bonded is called:**
A. Prosthetic group B. Co-Enzyme
C. Co-Factor D. Activator
- Q.41 It acts as precursor substance for coenzymes used by various enzymes during cellular metabolism:**
A. Proteins B. Carbohydrate
C. Nucleic acids D. Vitamins
- Q.42 According to _____ model, the active site of enzyme is modified as the substrate interacts with enzyme.**
A. Induced fit B. Emil Fischer
C. Lock and key D. Fluid Mosaic
- Q.43 Ionization of active sites and substrates are affected by:**
A. Slight change in temperature B. Extreme change in temperature
C. Slight change in pH D. Extreme change in pH
- Q.44 If due to high temperature, globular structure of enzyme is destroyed, enzyme is said to be:**
A. Activated B. Inactivated
C. Denatured D. Catalyzed
- Q.45 The competitive inhibitors have structural similarity with:**
A. Active site B. Substrate
C. Binding site D. Co-enzyme
- Q.46 In eukaryotes, enzymes are mostly:**
A. Present in extracellular fluid B. Attach to membrane system
C. Suspended in cytoplasm D. Present in lumen of organs
- Q.47 Succinate dehydrogenase converts succinate into:**
A. Malate B. Citrate
C. Malonic acid D. Fumarate
- Q.48 Any agent which reduces or stops the rate of reaction of enzymes is termed as:**
A. Inhibitors B. Promoter
C. Repressors D. Activator
- Q.49 It is the common requirement of all enzymes working in living organisms:**



- A. Acidic medium
- C. Aqueous medium

- B. Basic medium
- D. Alkaline medium

Q.50 If all the active sites are occupied, then rate of reaction would be:

- A. Minimum and constant
- C. Maximum and accelerating

- B. Zero and constant
- D. Constant and maximum

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bio T-2 key

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
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